Figure 1A (1V; antiparallel PNA probe)

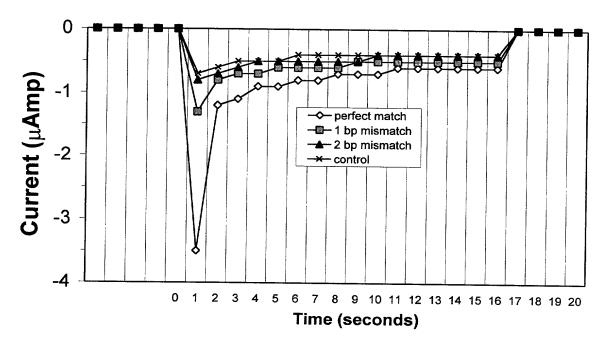


Figure 1B (5V; antiparallel PNA probe)

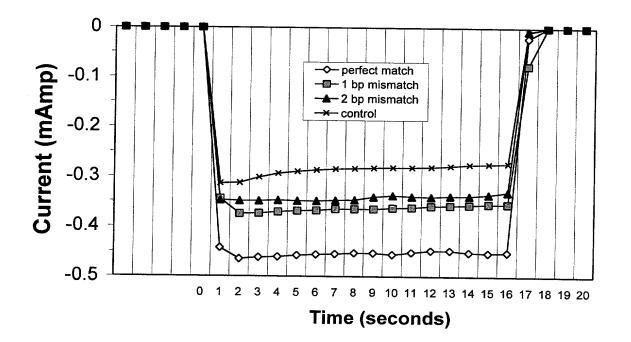


Figure 1C (1V; antiparallel PNA probe)

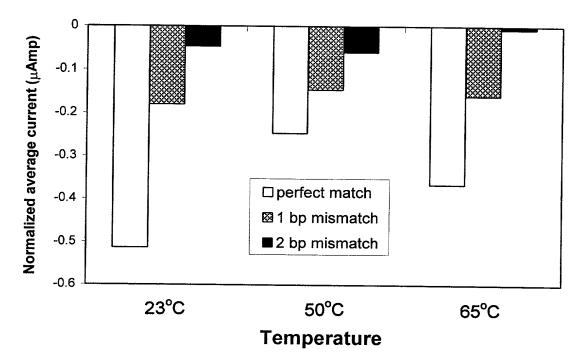
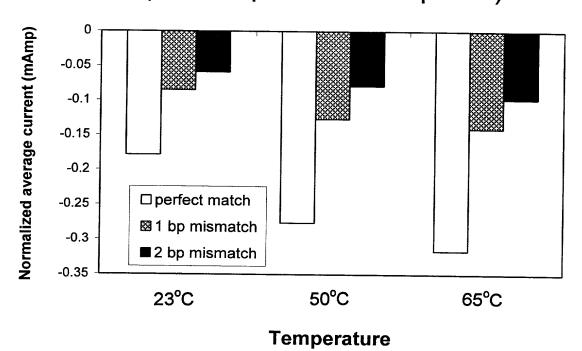


Figure 1D (5V; antiparallel PNA probe)



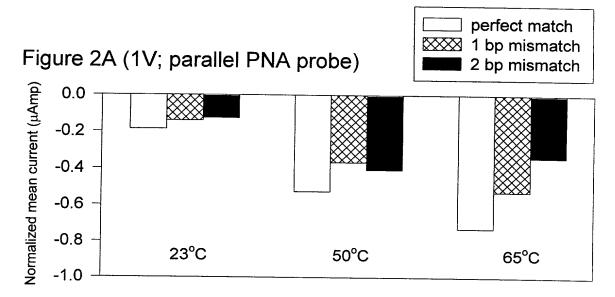


Figure 2B (5V; parallel PNA probe)

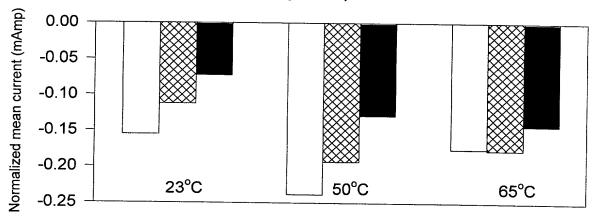


Figure 2C (5V; parallel PNA probe; 65°C treatment)

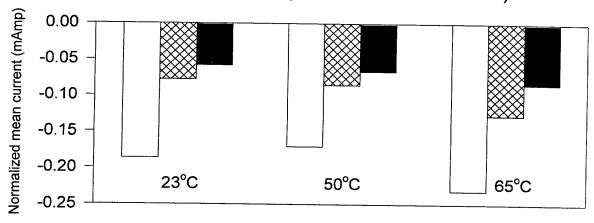


Figure 3A (1V; antiparallel DNA probe)

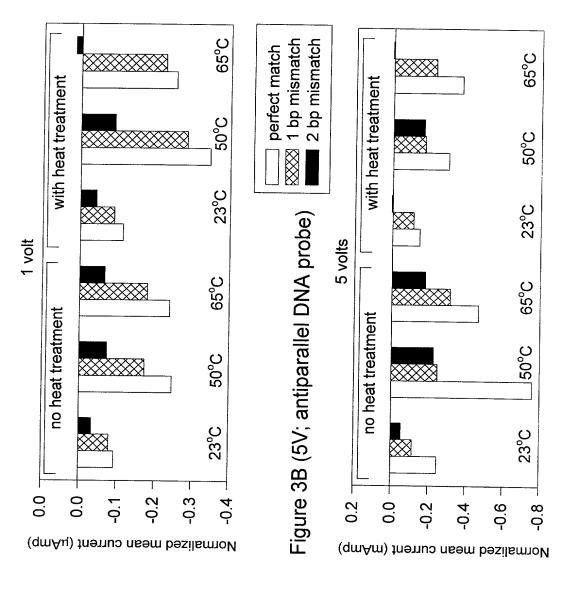


Figure 4 (5V; DNA probe with attached acridine)

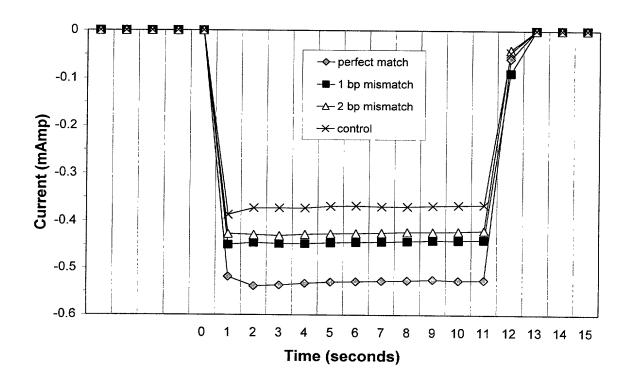


Figure 5A (PNA:DNA perfect match; 65°C)

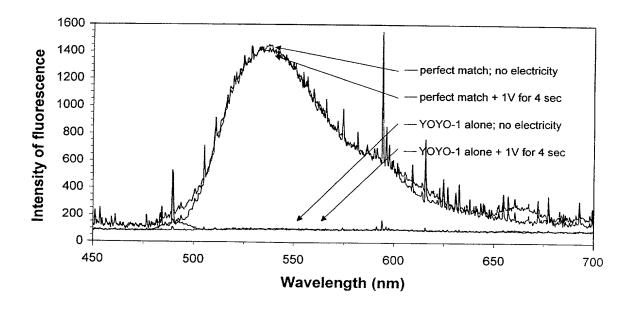


Figure 5B (PNA:DNA 1bp mismatch; 65°C)

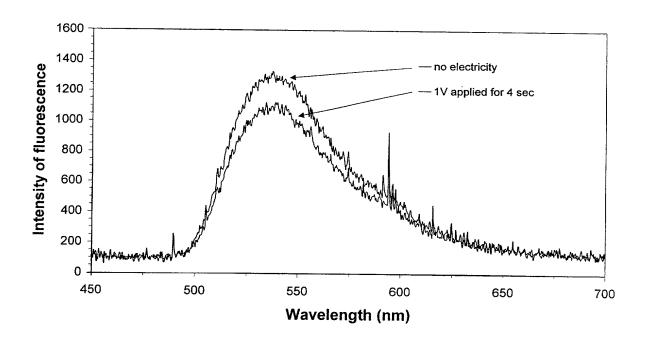
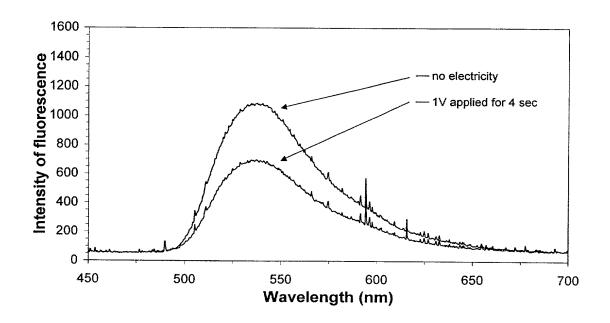


Figure 5C (PNA:DNA 2bp mismatch; 65°C)



- 1 bp G-T mismatch + 20V for 3 sec -YOYO-1 (250 nM) + 20V for 3 sec -1 bp G-T mismatch; no electricity -YOYO-1 (250 nM); no electricity ·2 bp mismatch + 20V for 3 sec perfect match + 20V for 3 sec -2 bp mismatch; no electricity perfect match; no electricity Figure 6. ssPNA:dsDNA hybridization at 23°C without prior Wavelength (nm) denaturation Intensity of fluorescence